

# Algebra 1 ... Readiness Test 1

## **Integers** – sample questions:

- $8 - (6 - 9) =$   
A. 11                      B. 7                      C. 5                      D. -5
- Mike received a check for \$215. He deposits all the money into his bank account and his new balance is \$2,184. What was his balance before he made the deposit?  
A. \$969                      B. \$1,869                      C. \$1,969                      D. \$2,399
- What number multiplied by 8 gives -24?  
A. 16                      B. -32                      C. 3                      D. -3
- Find the prime factorization of 30.  
A.  $2 \times 15$                       B.  $3 \times 10$                       C.  $2 \times 3 \times 5$                       D.  $2 \times 5 \times 5$

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## Answers

**Integers**

(1) A (2) C (3) D (4) C

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## **Fractions** – sample questions:

5.  $\frac{3}{4} + \frac{2}{3} =$

A.  $\frac{7}{6}$

B.  $\frac{5}{12}$

C.  $\frac{17}{12}$

D.  $\frac{5}{2}$

6.  $\frac{7}{15} \times \frac{5}{14} =$

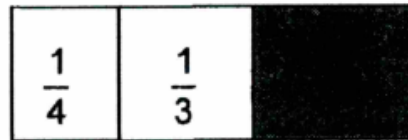
A.  $\frac{1}{6}$

B.  $\frac{1}{5}$

C.  $\frac{1}{15}$

D.  $\frac{7}{25}$

7. What fraction of the figure is shaded?



A.  $\frac{6}{7}$

B.  $\frac{4}{7}$

C.  $\frac{7}{12}$

D.  $\frac{5}{12}$

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## Answers

**Fractions**

**(5) C (6) A (7) D**

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### **Decimals** – sample questions:

8.  $6.8 + .37 =$

- A. 10.5      B. 7.57      C. 7.17      D. 8.17

9. What percent of 180 is 36?

- A. 20%      B. 50%      C. 200%      D. 500%

10. Write as a decimal: 7%

- A. 70.0      B. 7.0      C. 0.7      D. 0.07

11. Arrange the following numbers in order from smallest to largest

$\frac{1}{4}$ ,  $\frac{1}{5}$ , 0.24, 0.26

- A.  $\frac{1}{4}$ , 0.24, 0.26,  $\frac{1}{5}$       B.  $\frac{1}{4}$ ,  $\frac{1}{5}$ , 0.24, 0.26      C.  $\frac{1}{5}$ ,  $\frac{1}{4}$ , 0.24, 0.26      D.  $\frac{1}{5}$ , 0.24,  $\frac{1}{4}$ , 0.26

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## Answers

**Decimals**

**(8) C (9) A (10) D (11) D**

## Algebra 1 ... Readiness Test 1

### **Exponents & Square Roots** – sample questions:

12.  $4^3 \cdot 4^6 =$

A.  $4^9$

B.  $4^{18}$

C.  $16^9$

D.  $16^{18}$

13.  $(3.1)^2 + (.3)^2 =$

A. 11.56

B. 10

C. 9.7

D. 9.619

14.  $\sqrt{3^4} =$

A. 7

B. 9

C. 18

D. 81

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## Answers

**Exponents, Square Roots**

**(12) A (13) C (14) B**



# Algebra 1 ... Readiness Test 1

## **Simple Equations & Operations with Literal Symbols** – sample questions:

15. Solve:  $4x + 7 = 23$

- A. 4                      B. 7                      C. 16                      D. 30

16. If  $n = r + 5$  and  $r = 3$ , then  $n =$

- A. 2                      B. 4                      C. 8                      D. -2

17. Write an equation which says that distance  $d$  equals the product of rate of travel  $r$  and time traveled  $t$ .

- A.  $d \times t = r$               B.  $t = r \times d$               C.  $d = t \times r$               D.  $r = t \times d$

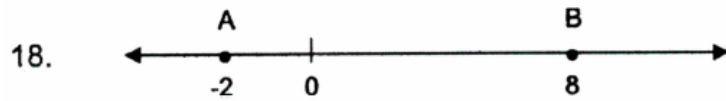
# Algebra 1 ... Readiness Test 1

## Answers

**Equations with Literal Symbols**    (15) A   (16) C   (17) C

# Algebra 1 ... Readiness Test 1

## Geometry and Graphing – sample questions:



On the number line above, what is the distance between points **A** and **B**, and what number represents the point half the distance between points **A** and **B**?

- A. distance is 6;  
midpoint is 3
- B. distance is 6,  
midpoint is 1
- C. distance is 10,  
midpoint is 0
- D. distance is 10,  
midpoint is 3
19. What is the radius of a circle whose area is  $64\pi$ ?
- A. 8
- B.  $8\pi$
- C. 32
- D. 64
20. What is the length of the third side of a right triangle with a hypotenuse of 5 and one leg equal to 3?
- A. 8
- B. 15
- C. 4
- D. 16

# Algebra 1 ... Readiness Test 1

## Answers

**Geometry & Graphing**

**(18) D (19) A (20) C**